

COREY MUSA

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PROFILE

Senior full-stack engineer with nine years building production financial systems at Credit Suisse and UBS across Switzerland, Spain, Italy, and the UK. Now CTO of a regulated Isle of Man credit union. **React / TypeScript** and Java / Spring Boot core stack, with deep experience in micro-frontend architecture, shared component libraries, payments and authentication security, and large-scale platform delivery. Currently shipping production React Native and React / TypeScript products with live users across mobile and web. I take full ownership of what I build, from architecture through deployment.

EMPLOYMENT

Independent Software Engineer, Zürich

Aug 2025 – Present

Building and shipping production React Native, React / TypeScript, and Next.js products across mobile and web.

Mooncake · getmooncake.com — Cross-platform AI chat app built **React Native first** with TypeScript, Hono, and Drizzle ORM. Automatic context memory across conversations. iOS and Android, pending App Store and Play Store release.

PromptMySite · promptmysite.com — LLM agent platform in TypeScript: orchestration, tool calling, streaming inference, multi-turn state, RAG pipeline. Live on Shopify with Stripe billing.

Additional **Next.js** projects: removewhitespace.com, cariadletters.com. More tools and experiments at coreyscodecave.com.

RugbyUnlocked · rugbyunlocked.com

Jan 2026 – Present

Co-founder

Full-stack SaaS for amateur rugby player identity and statistics. Technical lead and sole engineer; own architecture, build, and operations end-to-end.

- Grown organically to 400 users / 40 paying across 110 clubs without paid acquisition
- Owned full stack: frontend, backend, Stripe billing, hosting, and ongoing operations

Future Proof Solutions · Manx Credit Union

Aug 2025 – Present

Co-founder & CTO

Built and run the technology platform behind Manx Credit Union, an IoMFSA-regulated Isle of Man credit union. The platform is the operating system of the firm: a member portal for savings and loans alongside a staff stack that runs every step of the credit-union lifecycle. End-to-end ownership from architecture through production.

- Delivered the full **loan lifecycle**: application, automated affordability and risk-tier assessment, credit-bureau pull and archive, interview scheduling, committee decisioning, cashier disbursement, scheduled repayment, and arrears handling
- Built **digital onboarding** with photographic ID and proof-of-address pipelines, plus a walk-in / no-contact financial-inclusion path with proxy contact and four-eyes approval under the IoMFSA Designated Businesses Act; treasury and savings (accounts, payments, statements); and **open-banking integration via Yapily** for income verification and affordability inputs
- Designed and shipped a first-class **regulated overlay**: AML/CFT operations (SAR queue, OFSI sanctions, PEP, and adverse-media triage with daily re-screening); KYC and CDD audit trails; vulnerable-customer flagging under CONC 1.2 / FCA Consumer Duty; DSAR bundling; tamper-evident SHA-256 hash chains across audit, training, and credit-bureau records; category-specific retention engine; in-product §157 AML training (11 modules, 270 scenario-based questions, version-pinned attestation); and one-click inspection-pack export for IoMFSA visits

- Real-time member experience over **WebSocket / STOMP** with backend-driven workspace configuration and an embedded support chatbot
- Stack: **Angular 19, Spring Boot 3.2 / Java 21, custom Spring Authorization Server**

Credit Suisse / UBS, Zürich

Aug 2020 – Jul 2025

Frontend Consultant → Assistant Vice President → Associate Director

Five consecutive years on Swiss wealth management platforms through the largest banking consolidation in Swiss history. Progressed from contract frontend architect to permanent backend lead to Associate Director leading full-stack React / TypeScript delivery on the consolidated EMEA platform.

- Led **React / TypeScript** full-stack development (with Java 17) for the consolidated UBS EMEA wealth management platform; delivered and deployed to Spain, Italy, and UK markets
- Architected the **Angular 12 micro-frontend / shared component library** adopted across multiple business units as the standard for the wealth platform — directly comparable to the design-system and shared-library scope this role requires
- Sole backend developer for the Zürich wealth management team; led monolith-to-microservices migration single-handedly with complete ownership from requirements through production
- Designed the end-to-end technical hiring process from scratch; hired and onboarded three engineers
- Authored architectural design documents for executive sign-off; ran Java workshops across multiple offices; mentored distributed teams across Switzerland, UK, and India
- Drove cross-functional alignment between business stakeholders and distributed engineering teams

Backbase, Cardiff

Jan 2019 – Aug 2020

Junior Full Stack Developer

- Company's first full-stack developer; built the reusable **micro-frontend library** used across all credit union and banking clients (Angular, Java 8)
- Owned the payments security layer: SMS OTP, device out-of-band authentication, and Keycloak integration (**OAuth2 / OIDC**), shipped to production across multiple regulated financial institutions

Smartstream Technologies, Bristol

Jun 2017 – Aug 2018

Software Engineer

- Java microservices on a two-year graduate programme; full-lifecycle ownership

TECHNICAL SKILLS

Frontend React, TypeScript, React Native, Next.js, Angular 19, RxJS, SCSS, micro-frontend architecture, design systems, shared component libraries, Jasmine / Karma

Backend Java 21, Spring Boot 3, RESTful APIs, microservices, clean architecture, PostgreSQL / JPA, WebSocket / STOMP, Hono, Drizzle ORM, async processing, JUnit / TDD

Auth & Security OAuth2, OIDC, Spring Authorization Server, Keycloak, SMS OTP, device out-of-band authentication

Fintech & Regulated open-banking integration (Yapily), AML/CFT operations, KYC / CDD audit trails, FCA Consumer Duty, IoMFS regulatory frameworks, tamper-evident SHA-256 audit chains, regulator inspection-pack export

Cloud & Infra AWS, Docker, Kubernetes, containerised deployments, CI/CD (Jenkins, GitHub Actions), Maven, Git, SonarQube

AI & LLM LLM orchestration, RAG, tool / function calling, streaming inference, evaluation frameworks, Python ML (PyTorch, OpenCV, YOLO)

Practices Agile / Scrum, API-first design, technical documentation, technical hiring, mentoring, cross-functional stakeholder communication

EDUCATION

BSc Computer Science · Newcastle University · 2014 – 2017